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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/902,407	07/10/2001	Yasser alSafadi	US010319	8261
24737	7590	04/16/2009		
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			EXAMINER	
P.O. BOX 3001			BOVEJA, NAMRATA	
BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
			3622	
		MAIL DATE	DELIVERY MODE	
		04/16/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 09/902,407	<b>Applicant(s)</b> ALSAFADI ET AL.
	<b>Examiner</b> PINKY BOVEJA	<b>Art Unit</b> 3622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(o).

#### Status

- 1) Responsive to communication(s) filed on 06 January 2009.  
 2a) This action is FINAL.      2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-21 is/are pending in the application.  
 4a) Of the above claim(s) 15 is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-14 and 16-21 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 10 July 2001 and 11 January 2002 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
 3) Information Disclosure Statement(s) (PTO/964/08)  
 Paper No(s)/Mail Date \_\_\_\_\_
- 4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date \_\_\_\_\_
- 5) Notice of Intent to File a Patent Application  
 6) Other: \_\_\_\_\_

**DETAILED ACTION**

1. This office action is in response to the communication filed on 01/06/2009.
2. Claim 15 has been cancelled by the Applicant. Claims 1-14 and 16-21 are presented for examination.
3. Amendments to claims 1, 14, and 17 have been entered and considered.

**Claim Rejections - 35 USC § 112**

The second paragraph of 35 U.S.C. 112 is directed to requirements for the claims:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

There are two separate requirements set forth in this paragraph:

- (A) the claims must set forth the subject matter that applicants regard as their invention; and
- (B) the claims must particularly point out and distinctly define the metes and bounds of the subject matter that will be protected by the patent grant.

4. Claims 1, 14, and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In reference to claims 1 and 14, where applicant acts as his or her own lexicographer to specifically define a term of a claim contrary to its ordinary meaning, the written description must clearly redefine the claim term and set forth the uncommon definition so as to put one reasonably skilled in the art on notice that the applicant intended to so redefine that claim term. *Process Control Corp. v. HydReclaim Corp.*, 190 F.3d 1350, 1357, 52 USPQ2d 1029, 1033 (Fed. Cir. 1999). The term "user-selectable limiting factors" in claims 1 and 14 is used by the claims to mean "factors that are independent of the search criteria", while the accepted meaning is a factor that is

selectable by a user. The term is indefinite because the specification does not clearly redefine the term. In fact, page 4 of the specification recites examples of limiting factors but never discloses a specific definition of the term "limiting factor." Furthermore, on page 7 of the specification, it is stated that "*limiting factors are user-specified and provide a mechanism by which the recommender system generates recommendations based on the input,*" and "limiting factors represent user-specified limits on various characteristics of the recommendation-generating process implemented in the recommender system." *On page 7 and page 8 of the Applicant specification, it is also recited that "limiting factors may specify, e.g. the amount of time a recommender system should spend in generating the recommendation...or combinations of these and other limiting factors."* So, the Applicant gives some examples of limiting factors, does not provide a specific definition of limiting factors, and includes other unidentified limiting factors to be included in what he means by limiting factors. Therefore, using the definition provided in the Applicant's specification, a limiting factor is not necessarily independent of the search criteria, but is interpreted to be a factor *defined by user-specified limits, since the definition of limiting factors as being independent of the search criteria was not specifically defined in the specification.* Additionally, the term "input" in claims 1 and 14 is used by the claims to mean "input that is dependent on the search criteria," while the accepted meaning is to enter data into a computer for processing per Dictionary.com. The term is indefinite because the specification does not clearly redefine the term. In fact, page 3 of the specification recites input as being representative of an offer or other opportunity, and page 7 of the specification gives

examples of how input may include information. Since no specific definition of input has been provided in the specification, an input is not necessarily dependent on the search criteria, and an input is interpreted to mean enter data into a computer for processing.

5. In reference to claim 17, where applicant acts as his or her own lexicographer to specifically define a term of a claim contrary to its ordinary meaning, the written description must clearly redefine the claim term and set forth the uncommon definition so as to put one reasonably skilled in the art on notice that the applicant intended to so redefine that claim term. Process Control Corp. v. HydReclam Corp., 190 F.3d 1350, 1357, 52 USPQ2d 1029, 1033 (Fed. Cir. 1999). the term "input" in claim 17 is used by the claim to mean "input that is independent of the one or more pre-defined, user-selectable limiting factors," while the accepted meaning is to enter data into a computer for processing per Dictionary.com. The term is indefinite because the specification does not clearly redefine the term. In fact, page 3 of the specification recites input as being representative of an offer or other opportunity, and page 7 of the specification gives examples of how input may include information. Since no specific definition of input has been provided in the specification, an input is not necessarily dependent on the search criteria, and an input is interpreted to mean enter data into a computer for processing. Additionally, claim 17 recites the recommender system "operating on" a recommendation-generating process. The term "operating on" is indefinite, since it is unclear what the Applicant means by this limitation. Typically, a system is used to carry out a process, but it does not operate on a process. It is interpreted to mean that the system carries out or performs the process.

**Claim Rejections - 35 USC § 102**

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

6. **Disclaimer:** Claims 1, 14, and 17 were found to be deficient under U.S.C. 101 and U.S.C. 112 second paragraph. To the extent the claimed invention was understood, the following art was applied.

Claims 1-3, 5, 8-10, 12-14, 16, 17, 20, and 21 are rejected under 102(a) as being anticipated by the LexisNexis website printouts (see attached pages) (hereinafter Lexis).

In reference to claim 1, the Lexis teaches a method for use in an information processing system for generating a recommendation at a processing device, the method comprising: pre-defining one or more user-selectable limiting factors in a recommender system that limit optimal processing characteristics (i.e. per page 8 of the Applicant's specification, optimal or near optimal output is based on the user input of ASAP versus take your time factors, and per Lexis, optimal processing can be achieved by selecting specific databases) of a recommendation-generating process implemented in the recommender system (i.e. giving the user the option to select the following Jurisdictions such as Federal Legal U.S., Federal and State case law, state court cases, MO Supreme Court and Court of Appeals Cases, MT Supreme Court Cases etc. (i.e. different databases can be searched) (pages 15 and pages 1-3 of the newly scanned

pages included with this OA); receiving a user selection of the one or more pre-defined, user-selectable limiting factors to be used *in the recommender system* (pages 15 and pages 1-3 of the newly scanned pages included with this OA); receiving an input in the recommender system *from one or more sources* (i.e. receiving a citation, party names, keywords *by a user*) (pages 5, 6, 9, 12-15, 22, and 23); processing the input in the recommender system, based on the search criteria, by the recommendation generating process (i.e. input has to be processed with a recommendation generating process to provide the results) in accordance with the selected one or more pre-defined, user-selectable limiting factors (i.e. applying the factors to the search input) (pages 7, 17, and 22); and generating and outputting recommendation *at the processing device* in accordance with the search criteria based at least in part on the processed input (i.e. presenting the user with the results) (pages 7, 8, 17, and 22), the output recommendation being generated in accordance with an optimal processing as limited by the pre-defined one or more user-selectable limiting factors (i.e. the user selected limiting factors are used to produce optimally processed results where the user is given the option to select the following Jurisdictions such as Federal Legal U.S., Federal and State case law, state court cases, MO Supreme Court and Court of Appeals Cases, MT Supreme Court Cases etc. (i.e. different databases can be searched) (pages 15 and pages 1-3 of the newly scanned pages included with this OA).

7. In reference to claim 14, Lexis teaches an apparatus for use in generating a recommendation based on search criteria in a processing device information processing system, the apparatus comprising: memory for storing profile associated with the device

(i.e. it is inherent that there is a memory for storing the profile, since the user is being asked to login using a login id which the user had to create previously during registration and which is currently stored in the system along with information such as student access versus professor access and e-mail information) (page 1); and a processor coupled to the memory, the processor being operative to process an input from one or more sources and one or more limiting factors in an implementation of a recommender system (pages 5, 6, 9, 12-15, 22, and 23), the one or more limiting factors being pre-defined and selectable by user of the device prior to the processor processing the input based on the search criteria (pages 7, 9, 12-15, 17, and 22), the one or more limiting factors defining one or more processing characteristics relative to an optimal processing characteristic (i.e. per page 8 of the Applicant's specification, optimal or near optimal output is based on the user input of ASAP versus take your time factors, and per Lexis, optimal processing can be achieved by selecting specific databases) of a recommendation generating process implemented in the recommender system, and to generate *and output* the recommendation in accordance with the search criteria, based at least in part on the input the stored profile associated with the device (i.e. inherent because Lexis limits certain kinds of access to features for students that it allows Professors to access based on who logs into Lexis) (page 1), the processing characteristic of the recommendation generating process being configured by the recommender system in accordance with the one or more limiting factors (pages 7, 8, 17, and 22) that limit the operating of the recommendation-generating process relative to the optimal processing characteristic (i.e. in Lexis, selecting the processing

characteristic of a given jurisdiction on page 23 and pages 1-3 of the newly scanned pages attached with the OA, limits the generation of the recommendation to be from the database associated with that specific jurisdiction, since only those selected databases are operationally searched and billed to the user) (page 23 and pages 1-3 of the newly scanned pages attached with the OA).

8. In reference to claim 17, Lexis teaches a method for use in an information processing system for generating a recommendation *based on search criteria* at a processing device, the method comprising: pre-defining one or more user-selectable limiting factors in a recommender system that limit optimal processing characteristics (i.e. per page 8 of the Applicant's specification, optimal or near optimal output is based on the user input of ASAP versus take your time factors, and per Lexis, optimal processing can be achieved by selecting specific databases) of a recommendation-generating process implemented in the recommender system (i.e. giving the user the option to select the following Jurisdictions such as Federal Legal U.S., Federal and State case law, state court cases, MO Supreme Court and Court of Appeals Cases, MT Supreme Court Cases etc. (i.e. different databases can be searched) (pages 15 and pages 1-3 of the newly scanned pages included with this OA); receiving an input in a recommender system from a source separate from the processing device (i.e. from a user, a keyboard, or a mouse) (page 6), the recommender system carrying out or performing a recommendation-generating process (pages 7, 17, and 22); processing the input in the recommender system in accordance with the one or more pre-defined, user-selectable factors (page 15 and pages 1-3 of the newly scanned pages attached

with this OA); generating and outputting a recommendation at the processing device based on the processed input, *in accordance with the selected one or more pre-defined, user-selectable limiting factors* (pages 7, 8, 17, and 22); and generating a ripeness indicator associated with the operation of the recommendation-generating process (i.e. per the Applicant specification on page 11 and Figure 7, the user would like to know how ripe is the recommendation as indicated by the ripeness indicator, and so the ripeness indicator indicates the ripeness of the recommendation result) as limited by the one or more pre-defined, user-selectable limiting factors (pages 3, 4, and 21-23).

9. In reference to claims 2, 13, and 16, Lexis teaches the method further including generating a ripeness indicator associated with the output recommendation, the ripeness indicator being indicative of the one or more user-selectable limiting factors (pages 3, 4, and 21-23).

10. In reference to claim 3, Lexis teaches the method wherein the ripeness indicator comprises a visual indicator having at least a first state corresponding to a first color and a second state corresponding to a second color (pages 3, 4, and 21-23).

11. In reference to claim 5, Lexis teaches the method wherein at least one of the user-selectable limiting factors is selectable via a user interface of the processing device (pages 2-5, 9, 11-15, 22, and 23).

12. In reference to claims 8 and 20, Lexis teaches the method wherein at least one of the user-selectable limiting factors comprises a specified limit on a quality measure associated with the output recommendation (i.e. all positive treatment and all negative treatment) (pages 4 and 12).

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13. In reference to claim 9, Lexis teaches the method wherein at least one of the user-selectable limiting factors is selectable by the user as one of the plurality of points along a scale from a low level of the limiting factor to a high level of the limiting factor (i.e. one jurisdiction to all jurisdictions) (pages 12-14).

14. In reference to claim 10, Lexis teaches the method wherein the processing device is configured for presentation of the output recommendation in a visually perceptible manner on a display of the device (pages 1-17 and 21-23).

15. In reference to claim 12, Lexis teaches the method wherein the processing device comprises at least one of a desktop or portable personal computer (i.e. the Lexis site is accessed and utilized by using a computer) (pages 1-23), a personal digital assistant, wireless telephone and a set top box.

16. In reference to claim 21, Lexis teaches the method wherein the user-selectable limiting factors are predefined independent of receiving the input in the recommender system (i.e. sources such as state court cases, Federal and State case law, MO Supreme Court and Court of Appeals Cases, are predefined) (page 1 and 2 of the newly scanned pages) and further relate to resources used by the processing device to process the input in the recommender system (i.e. based on which database(s) is selected, such as state court cases, Federal and State case law, MO Supreme Court and Court of Appeals Cases, the processing device, processes the input in the recommender system by searching that selected database only) (pages 1-3 of the newly scanned pages).

**Claim Rejections - 35 USC § 103**

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

17. Claims 6, 7, 18, and 19 are rejected under U.S.C. 103(a) as being unpatentable over Lexis in view of Shaw ("Inventing the 'Paper' of Figure...Newspapers and the Future: First of Two Part. Next: Fax, phones, fear and the future." Los Angeles Times. June 2, 1991. Pages 1-8 hereinafter Shaw).

In reference to claims 6 and 18, Lexis does not teach the method wherein the limiting factor comprises a specified limit on an amount of time that may be spent by the recommender system in generating the output recommendation. Shaw teaches the method wherein the limiting factor comprises a specified limit on an amount of time that may be spent by the recommender system in generating the output recommendation (Page 2 lines 33-34 and Page 3 lines 1-3). It would have been obvious to modify Lexis wherein the limiting factor comprises a specified limit on an amount of time that may be spent by the recommender system in generating the output recommendation to enable users to receive smaller or greater number of result listings which best match the user criteria according to how much time the user has available to view the search results.

18. In reference to claims 7 and 19, Lexis does not teach the method

wherein the limiting factor comprises a specified limit on an amount of power consumption utilized (this is also considered to be equal to the amount of time that may be spent by the recommender system in generating the output recommendation, since in effect if you are running out of power, you are running out of the amount of time you have available to access the device prior to shut down as a result of depleting the power supply) in conjunction with generating the output recommendation. Shaw teaches the method wherein the limiting factor comprises a specified limit on an amount of time that may be spent by the recommender system in generating the output recommendation (Page 2 lines 33-34 and Page 3 lines 1-3). It would have been obvious to modify Lexis wherein the limiting factor comprises a specified limit on an amount of time that may be spent by the recommender system in generating the output recommendation to enable users to receive smaller or greater number of result listings which best match the user criteria according to how much time the user has available to view the search results.

19. Claims 4 and 11 are rejected under U.S.C. 103(a) as being unpatentable over Lexis in view of Official Notice.

In reference to claims 4 and 11, Lexis teaches the method comprising of a visual ripeness indicator (pages 3, 4, and 21-23). Lexis does not teach the ripeness indicator to be audible and presenting the information using a speaker associated with the device. In reference to claim 4, Official Notice is taken that it is old and well known to use an audible indicator to indicate the existence and degree of a match in the case of an announcement of winning lottery numbers or bingo numbers for example and to play this information using computer speakers. Therefore, it would have been obvious to a

person of ordinary skill in the art at the time of the applicant's invention to include the use of an audio indicator in the ripeness indicator and computer speakers to enable users to audibly determine the degree of match of the results in relation to a given criteria, since some people may want to receive this information by the use of audio and others may prefer to view the information graphically.

**Response to Arguments**

20. After careful review of Applicant's remarks/arguments filed on 01/06/09, the Applicant's arguments with respect to claims 1-14 and 16-21 are presented for examination and have been fully considered but are moot in view of the new ground(s) of rejection. Amendments to the claims have both been entered and considered.
21. Applicant's amendment successfully addresses the previously raised 35 U.S.C. 101 rejections, and therefore that rejection has been removed.
22. Applicant argues that Lexis does not teach the user-selectable limiting factors that are independent of the search criteria. With respect to this argument, the Examiner had previously made a 35 U.S.C. 112 second paragraph rejection, and the Examiner has further clarified this rejection in the Office Action above. In reference to claims 1 and 14, where applicant acts as his or her own lexicographer to specifically define a term of a claim contrary to its ordinary meaning, the written description must clearly redefine the claim term and set forth the uncommon definition so as to put one reasonably skilled in the art on notice that the applicant intended to so redefine that claim term. *Process Control Corp. v. HydReclaim Corp.*, 190 F.3d 1350, 1357, 52 USPQ2d 1029, 1033 (Fed. Cir. 1999). The term "user-selectable limiting factors" in

claims 1 and 14 is used by the claims to mean "factors that are independent of the search criteria", while the accepted meaning is a factor that is selectable by a user. The term is indefinite because the specification does not clearly redefine the term. In fact, page 4 of the specification recites examples of limiting factors but never discloses a specific definition of the term "limiting factor." Furthermore, on page 7 of the specification, it is stated that "limiting factors are user-specified and provide a mechanism by which the recommender system generates recommendations based on the input," and "limiting factors represent user-specified limits on various characteristics of the recommendation-generating process implemented in the recommender system." On page 7 and page 8 of the Applicant specification, it is also recited that "limiting factors may specify, e.g. the amount of time a recommender system should spend in generating the recommendation...or combinations of these and other limiting factors." So, the Applicant gives some examples of limiting factors, does not provide a specific definition of limiting factors, and includes other unidentified limiting factors to be included in what he means by limiting factors. Therefore, using the definition provided in the Applicant's specification, a limiting factor is not necessarily independent of the search criteria, but is interpreted to be a factor defined by user-specified limits, since the definition of limiting factors as being independent of the search criteria was not specifically defined in the specification. So, unless the Applicant specifically claims a particular limiting factor that is independent of a search criteria, the claims when read broadly in light of the specification, are supported by the definition that a limiting factor is any factor selected by the user that is used in generating a recommendation.

Applicant cites to page 10 lines 16-26 of the Applicant specification to highlight that a user may prefer relatively quick recommendations sometimes and may prefer that the system generate a higher quality recommendation at other times. This is also accomplished by Lexis, since the user can select to quickly search for state law for a quick search and for federal and state law for a higher quality search.

Applicant argues that different limiting factors may be applied depending on the user's selection in the Applicant's invention. With regard to this argument, the Applicant has not claimed this limitation. Furthermore, Lexis teaches this limitation, since factors such as positive treatment, negative treatment, jurisdiction, etc are different limiting factors that can be applied depending on the user's selection.

The Examiner would also like to point out to the Applicant that as recited in the Office Action above, even if there is a limiting factor that is independent of a search criteria, as claimed by the Applicant in claims 6 and 18, while Lexis does not teach the method wherein the limiting factor comprises a specified limit on an amount of time that may be spent by the recommender system in generating the output recommendation, Shaw teaches the method wherein the limiting factor comprises a specified limit on an amount of time that may be spent by the recommender system in generating the output recommendation (Page 2 lines 33-34 and Page 3 lines 1-3). It would have been obvious to modify Lexis wherein the limiting factor comprises a specified limit on an amount of time that may be spent by the recommender system in generating the output recommendation to enable users to receive smaller or greater number of result listings which best match the user criteria according to how much time

the user has available to view the search results.

23. Applicants additional remarks are addressed to new limitations in the claims and have been addressed in the rejection necessitated by the amendments.

**Conclusion**

24. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

**Point of Contact**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Namrata (Pinky) Boveja whose telephone number is 571-272-8105. The examiner can normally be reached on Mon-Fri, 8:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eric Stamber can be reached on 571-272-6724. The **Central**

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**FAX** phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 1866-217-9197 (toll-free).

/NAMRATA BOVEJA/

Examiner, Art Unit 3622